District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2207743395
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Adrian Baker	Contact Telephone 432-236-3808
Contact email adrian.baker@exxonmobil.com	Incident # *(assigned by OCD)*
Contact mailing address 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707	

Location of Release Source

Latitude 32.20200 Longitude -103.83200
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Poker Lake Unit C1 Frac Pond	Site Type Recycle Pond
Date Release Discovered 03/05/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
J	24	24S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 18.00	Volume Recovered (bbls) 00.00
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Contractor fueling pump hit a layflat line causing a release of fluids to soil. A third-party contractor has been retained for remediation activities.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2207743395
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

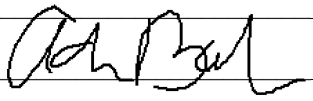
If all the actions described above have not been undertaken, explain why:

NA

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Adrian Baker Title: SSHE Coordinator

Signature:  Date: 3/18/22

email: adrian.baker@exxonmobil.com Telephone: 432-236-3808

OCD Only

Received by: Jocelyn Harimon Date: 03/18/2022

Location:	PLU C1 Frac Pond	
Spill Date:	3/5/2022	
Area 1		
Approximate Area =	2488.20	sq. ft.
Average Saturation (or depth) of spill =	3.25	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	18.00	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	**0.00**	**bbls**
Total Produced Water =	**18.00**	**bbls**
TOTAL VOLUME RECOVERED		
Total Crude Oil =	**0.00**	**bbls**
Total Produced Water =	**0.00**	**bbls**

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2207743395
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2207743395
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _Garrett Green_____ Title: _Environmental Coordinator_____

Signature: _____ Date: ____09/01/2022_____

email: _garrett.green@exxonmobil.com_____ Telephone: ____575-200-0729_____

OCD Only

Received by: Jocelyn Harimon Date: 09/01/2022

Incident ID	NAPP2207743395
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _Garrett Green_____ Title: _Environmental Coordinator_____

Signature: _____ Date: __09/01/2022_____

email: __garrett.green@exxonmobil.com_____ Telephone: ___575-200-0729_____

OCD Only

Received by: ____Jocelyn Harimon_____ Date: __09/01/2022____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jocelyn Harimon _____ Date: 11/30/2022

Printed Name: Jocelyn Harimon _____ Title: Environmental Specialist

ENSOLUM

September 1, 2022

District II
New Mexico Oil Conservation Division
811 S. First Street
Artesia, New Mexico 88210

Re: Closure Request
Poker Lake Unit C1 Frac Pond
Incident Number NAPP2207743395
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following Closure Request to document excavation and soil sampling activities completed to address impacted soil at the Poker Lake Unit C1 Frac Pond (Site). Soil was impacted by a release of produced water onto the surface of the frac pond berm. Based on the excavation activities and analytical results from the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2207743395.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit J, Section 24, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.20200° N, 103.83200° W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On March 5, 2022, a layflat line was damaged resulting in the release of approximately 18 barrels (bbls) of produced water. The release traveled down the side of the lined berm and pooled at the base of a hydraulic fracturing (frac) pond berm. No fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Form C-141 on March 18, 2022. The release was assigned Incident Number NAPP2207743395.

SITE CHARATERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted groundwater data is from New Mexico Office of the State Engineer (NMOSE) soil boring C-4483, located approximately 0.4 miles north of the Site. On November 24, 2020 the soil boring was drilled to a depth of 110 feet bgs. No groundwater was encountered. There are no surface features indicative of the presence of shallow groundwater. All

wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond located approximately 5,065 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT AND SAMPLING ACTIVITIES

On May 26, 2022, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four preliminary soil samples (SS01 through SS04) were collected within and around the release extent from a depth of 0.5 feet bgs to assess the lateral exent of the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the site visit and a photographic log is included in Appendix B.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated that benzene, BTEX, TPH-GRO/TPH-DRO and TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for preliminary soil sample SS04, collected east of the release extent indicated benzene, BTEX, TPH and chloride concentrations were in compliance with the strictest Table 1 Closure Criteria confirming the lateral extent of the release. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix C.

Vertical delineation at the locations of SS01 and SS02 was not possible due to the presense of the frac pond liner. The preliminary samples SS01 and SS02 were collected from soil just above the liner and any attempt to collect additional samples would have resulted in damage to the liner.

Based on the laboratory analytical results and presence of the berm liner, no additional remediation activities were warranted, however XTO voluntarily addressed surficial staining observed at the base of the frac pond berm.

EXCAVATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On August 1, 2022, Ensolum personnel returned to the Site to oversee excavation activites. Stained soil was excavated from the release area at the base of the berm using track-mounted backhoe and transport vehicle. To direct excavation activities, soil was screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to a depth of 1 foot bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of the impacted soil, a 5-point composite soil sample was collected from the floor of the excavation. The 5-point composite sample was collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil sample FS01 was collected from the floor of the excavation at a depth of 1 foot bgs. Because the excavation was shallow, the floor sample composite sample included aliquots collected from the nearby sidewalls. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The excavation area measured approximately 160 square feet. Approximately 6 cubic yards of stained soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Carlsbad, New Mexico.

Laboratory analytical results for excavation floor sample FS01 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and no further remediation was required. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix C.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the March 5, 2022 release of produced water that impacted a thin covering of soil on the berm of a lined frac pond. Laboratory analytical results from preliminary soil samples collected of soil overlying the lined berm were compliant with Site Closure Criteria. Additional vertical delineation of the berm was not possible without damaging the liner and the liner appeared intact. XTO excavated stained soil from the portion of the release extent that was not lined at the base of the berm. Laboratory analytical results for the excavation soil sample indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure. Based on the soil sample laboratory analytical results, no further remediation is required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. As such, XTO respectfully requests closure for Incident Number NAPP2207743395.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC

Tacoma Morrissey
Senior Geologist

Ashley L. Ager, M.S., P.G.
Program Director

cc: Garrett Green, XTO
Shelby Pennington, XTO
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	NMOCD Notifications

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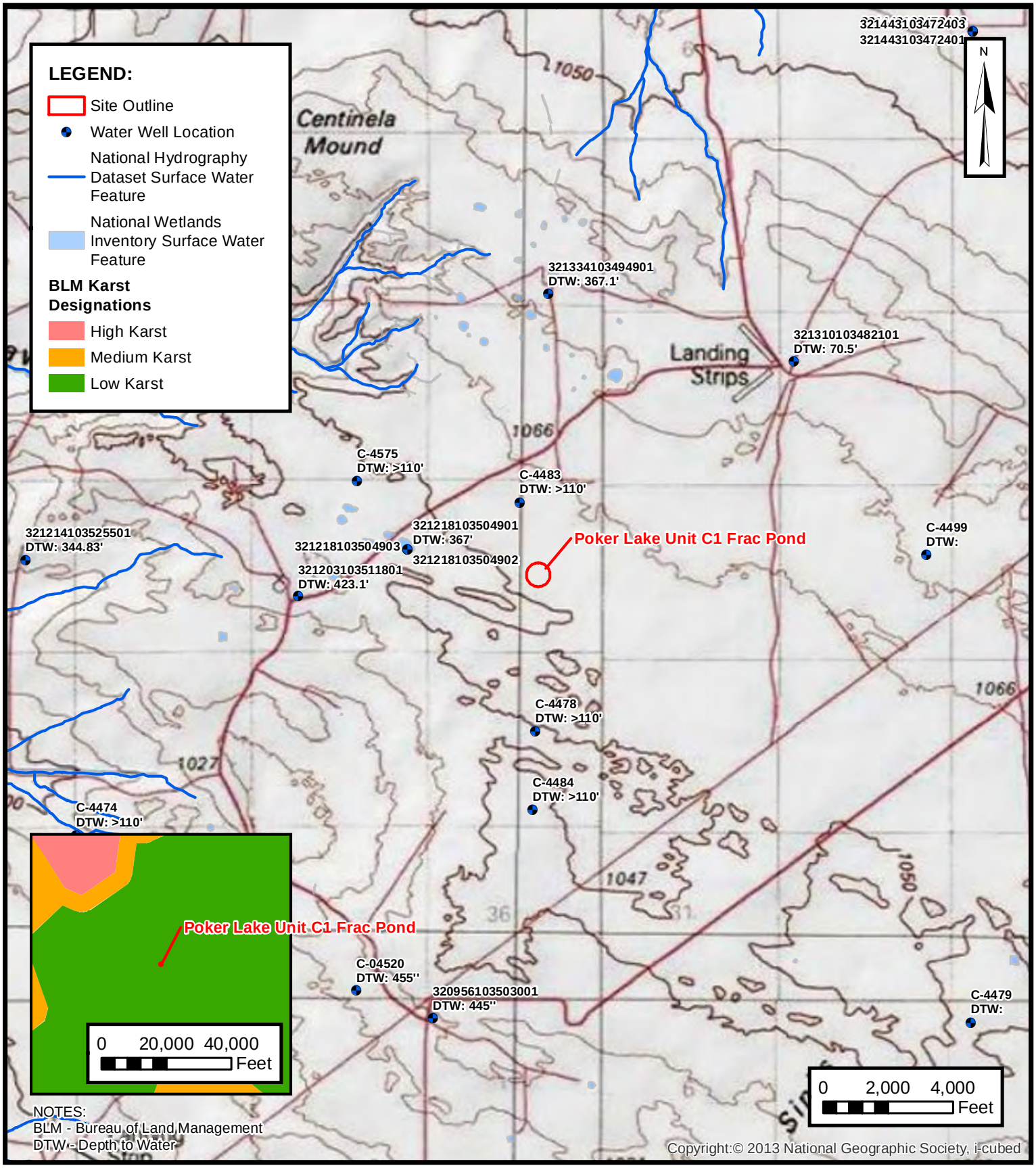
FIGURES



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Environmental, Engineering and Hydrogeologic Consultants

SITE RECEPTOR MAP

XTO ENERGY, INC
POKER LAKE UNIT C1 FRAC POND
NAPP2207743395
Unit J, Sec 24, T24S, R30E
Eddy County, New Mexico

FIGURE
1

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

PRELIMINARY SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
POKER LAKE UNIT C1 FRAC POND
NAPP2207743395
Unit J, Sec 24, T24S, R30E
Eddy County, New Mexico

FIGURE

2

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

EXCAVATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
POKER LAKE UNIT C1 FRAC POND
NAPP2207743395
Unit J, Sec 24, T24S, R30E
Eddy County, New Mexico

FIGURE

3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Poker Lake Unit CI Frac Pond
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
Preliminary Soil Samples										
SS01	05/26/2022	0.5	<0.00201	<0.00402	<49.8	99.0	<49.8	99.0	99.0	2,420
SS02	05/26/2022	0.5	<0.00199	<0.00398	<50.0	105	<50.0	105	105	6,580
SS03	05/26/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	5,070
SS04	05/26/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	55.0
Floor Soil Samples										
FS01	08/01/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	799

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon

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APPENDIX A

Referenced Well Records

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): POD1 (BH-01)	WELL TAG ID NO.: n/a	OSE FILE NO(S).: C-4483
WELL OWNER NAME(S): XTO Energy (Kyle Littrell)		PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: 6401 Holiday Hill Dr.		CITY: Midland STATE: TX ZIP: 79707

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32°	12'	31.77"	N
	LONGITUDE	-103°	50'	0.72"	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE: NW NW NE Sec. 24 T24S R30E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
11/24/2020	11/24/2020	temporary well material	110	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	110	±8.5	Boring- HSA	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

OSE DII DEC 12 2020 PM 3:29

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4483	POD NO. 1	TRN NO. 679344	
LOCATION 123 T24S R30E Sec 24		WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	24	24	Sand, Fine-grained,poorly-graded, with caliche, Tan-Off-White	Y ✓ N	
24	34	10	Sand, Fine-grained,poorly-graded, silty, with caliche gravel, Tan-Off-White	Y ✓ N	
34	51	17	Sand, Fine-grained,poorly-graded, silty, with caliche gravel, Light Brown	Y ✓ N	
51	54	3	Sand, Fine-grained,poorly-graded, silty, with caliche gravel, Light Brown-Brown	Y ✓ N	
54	76	22	Sand, Fine-grained,poorly-graded, Brown, dry	Y ✓ N	
76	101	25	Sand, Fine-grained,poorly-graded, Light-Brown, dry	Y ✓ N	
101	110	9	Sand, Fine-grained,poorly-graded, with gravel, Light-Brown, dry-moist	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from LTE on-site geologist.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 12/14/20 — DSE DIT DEC 17 2020 PM 3:29

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4483	POD NO. 1	TRN NO. 629344	
LOCATION 123 T24S R30E Sec 24		WELL TAG ID NO. N/A	PAGE 2 OF 2

John R. D Antonio, Jr., P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 679344
File Nbr: C 04483
Well File Nbr: C 04483 POD1

Jan. 22, 2021

TACOMA MORRISSEY
LT ENVIRONMENTAL INC
508 WEST STEVENS
CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 09/29/2020.

The Well Record was received in this office on 12/17/2020, stating that it had been completed on 11/24/2020, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/29/2021.

If you have any questions, please feel free to contact us.

Sincerely,

Andrew Dennis
(575)622-6521

drywell

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Attention current WaterAlert users: NextGen WaterAlert is replacing Legacy WaterAlert. You must take action before 9/30/2022 to retain your alerts. Read more.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

- 321334103494901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

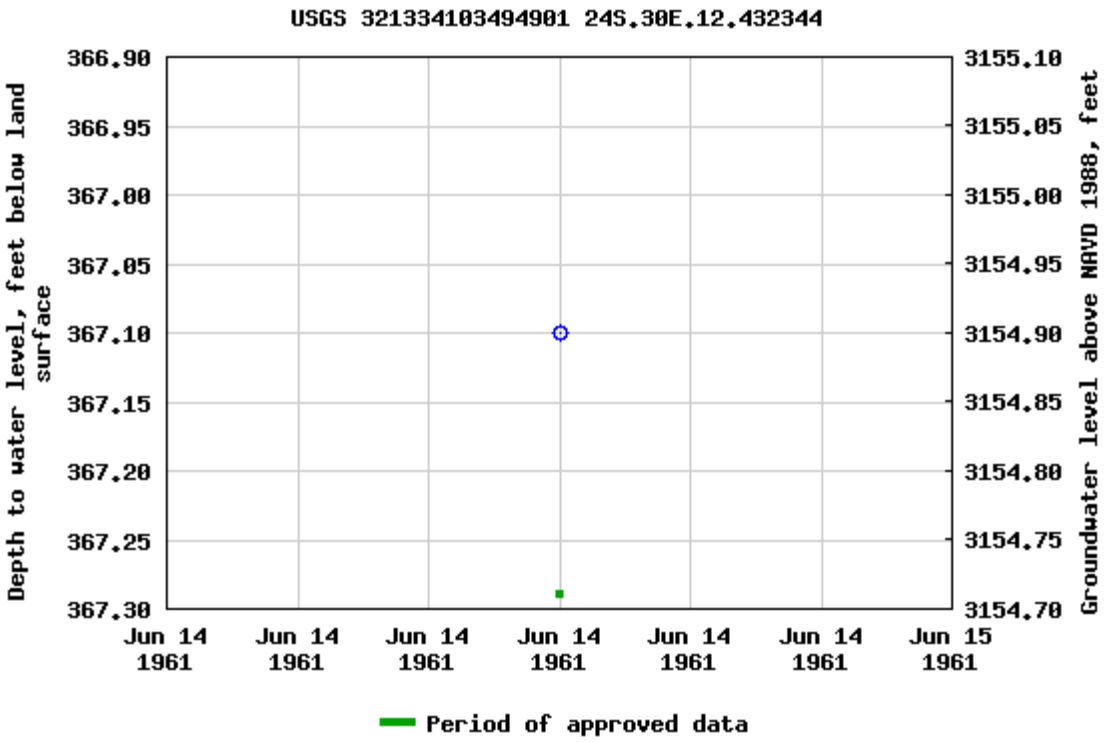
USGS 321334103494901 24S.30E.12.432344

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°13'34", Longitude 103°49'49" NAD27
Land-surface elevation 3,522 feet above NAVD88
The depth of the well is 500 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-08-29 14:01:55 EDT
0.6 0.52 nadww01

ENSOLUM

APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
XTO Energy, Inc.
Poker Lake Unit C1 Frac Pond
Incident Number NAPP2207743395

Photograph 1 Date: May 26, 2022
Description: North view of release extent on berm surface. No staining observed and liner is visible just beneath berm soils.

Photograph 2 Date: May 26, 2022
Description: View of staing at the base of the berm where fluids pooled, facing northwest.

Photograph 3 Date: Aug 1, 2022
Description: View of ongoing exavation of stained soils facing north.

Photograph 4 Date:Aug 1, 2022
Description: View of final excavation of stained soils, facing south.

ENSOLUM

APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2358-1
Laboratory Sample Delivery Group: 03E1558018
Client Project/Site: POKER LAKE UNIT C1 FRAC POND

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

Jkramer

Authorized for release by:
6/3/2022 1:28:16 PM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Laboratory Job ID: 890-2358-1
SDG: 03E1558018

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-2358-1
Project/Site: POKER LAKE UNIT C1 FRAC POND SDG: 03E1558018

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Job ID: 890-2358-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2358-1

Receipt
The samples were received on 5/27/2022 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

GC VOA
Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-26732 and analytical batch 880-26723 recovered outside control limits for the following analytes: Benzene.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-26732 and analytical batch 880-26723 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-26466 and analytical batch 880-26613 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The method blank for preparation batch 880-26657 and analytical batch 880-26613 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Client Sample ID: SS01

Lab Sample ID: 890-2358-1
Matrix: Solid
Date Collected: 05/26/22 12:15
Date Received: 05/27/22 16:40
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1 *1 F2	0.00201		mg/Kg		06/02/22 11:29	06/03/22 06:34	1
Toluene	<0.00201	U F1 F2	0.00201		mg/Kg		06/02/22 11:29	06/03/22 06:34	1
Ethylbenzene	<0.00201	U F1 F2	0.00201		mg/Kg		06/02/22 11:29	06/03/22 06:34	1
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.00402		mg/Kg		06/02/22 11:29	06/03/22 06:34	1
o-Xylene	<0.00201	U F1 F2	0.00201		mg/Kg		06/02/22 11:29	06/03/22 06:34	1
Xylenes, Total	<0.00402	U F1 F2	0.00402		mg/Kg		06/02/22 11:29	06/03/22 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/02/22 11:29*	*06/03/22 06:34*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/02/22 11:29*	*06/03/22 06:34*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/03/22 14:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**99.0**		49.8		mg/Kg			06/02/22 09:37	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/01/22 11:30	06/01/22 19:16	1
Diesel Range Organics (Over C10-C28)	**99.0**		49.8		mg/Kg		06/01/22 11:30	06/01/22 19:16	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/01/22 11:30	06/01/22 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*06/01/22 11:30*	*06/01/22 19:16*	*1*
o-Terphenyl	*111*		*70 - 130*	*06/01/22 11:30*	*06/01/22 19:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2420**		24.9		mg/Kg			06/02/22 10:54	5

Client Sample ID: SS02

Lab Sample ID: 890-2358-2
Matrix: Solid
Date Collected: 05/26/22 12:20
Date Received: 05/27/22 16:40
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199		mg/Kg		06/02/22 11:29	06/03/22 06:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:29	06/03/22 06:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:29	06/03/22 06:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/22 11:29	06/03/22 06:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/22 11:29	06/03/22 06:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/22 11:29	06/03/22 06:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/02/22 11:29*	*06/03/22 06:54*	*1*

Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Client Sample ID: SS02

Lab Sample ID: 890-2358-2
Matrix: Solid
Date Collected: 05/26/22 12:20
Date Received: 05/27/22 16:40
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/02/22 11:29*	*06/03/22 06:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/03/22 14:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**105**		50.0	mg/Kg			06/02/22 09:37	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/01/22 11:30	06/01/22 19:38	1
Diesel Range Organics (Over C10-C28)	**105**		50.0	mg/Kg		06/01/22 11:30	06/01/22 19:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/01/22 11:30	06/01/22 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*96*		*70 - 130*	*06/01/22 11:30*	*06/01/22 19:38*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/01/22 11:30*	*06/01/22 19:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6580**		49.8	mg/Kg			06/02/22 11:04	10

Client Sample ID: SS03

Lab Sample ID: 890-2358-3
Matrix: Solid
Date Collected: 05/26/22 12:25
Date Received: 05/27/22 16:40
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		06/02/22 11:29	06/03/22 07:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/02/22 11:29	06/03/22 07:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/02/22 11:29	06/03/22 07:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/02/22 11:29	06/03/22 07:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/02/22 11:29	06/03/22 07:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/02/22 11:29	06/03/22 07:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/02/22 11:29*	*06/03/22 07:15*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/02/22 11:29*	*06/03/22 07:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/03/22 14:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/02/22 09:37	1

Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Client Sample ID: SS03

Lab Sample ID: 890-2358-3
Matrix: Solid
Date Collected: 05/26/22 12:25
Date Received: 05/27/22 16:40
Sample Depth: 0.5'

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 11:30	06/01/22 19:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 11:30	06/01/22 19:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 11:30	06/01/22 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/01/22 11:30*	*06/01/22 19:59*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/01/22 11:30*	*06/01/22 19:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5070**		49.5		mg/Kg			06/02/22 11:13	10

Client Sample ID: SS04

Lab Sample ID: 890-2358-4
Matrix: Solid
Date Collected: 05/26/22 14:20
Date Received: 05/27/22 16:40
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200		mg/Kg		06/02/22 11:29	06/03/22 07:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:29	06/03/22 07:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:29	06/03/22 07:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/22 11:29	06/03/22 07:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:29	06/03/22 07:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/22 11:29	06/03/22 07:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*06/02/22 11:29*	*06/03/22 07:35*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/02/22 11:29*	*06/03/22 07:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/03/22 14:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/22 09:37	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/01/22 14:08	06/02/22 00:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/01/22 14:08	06/02/22 00:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/01/22 14:08	06/02/22 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*06/01/22 14:08*	*06/02/22 00:57*	*1*
o-Terphenyl	*94*		*70 - 130*	*06/01/22 14:08*	*06/02/22 00:57*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Client Sample ID: SS04
Date Collected: 05/26/22 14:20
Date Received: 05/27/22 16:40
Sample Depth: 0.5'

Lab Sample ID: 890-2358-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.0		4.96		mg/Kg			06/02/22 11:22	1

Surrogate Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2358-1	SS01	102	92
890-2358-1 MS	SS01	126	85
890-2358-1 MSD	SS01	125	87
890-2358-2	SS02	106	93
890-2358-3	SS03	103	96
890-2358-4	SS04	128	88
LCS 880-26723/3	Lab Control Sample	98	97
LCSD 880-26723/4	Lab Control Sample Dup	114	94
LCSD 880-26732/2-A	Lab Control Sample Dup	109	96
MB 880-26723/8	Method Blank	107	100
MB 880-26732/5-A	Method Blank	108	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-15264-A-21-E MS	Matrix Spike	85	79
880-15264-A-21-F MSD	Matrix Spike Duplicate	92	87
890-2357-A-1-C MS	Matrix Spike	93	86
890-2357-A-1-D MSD	Matrix Spike Duplicate	92	86
890-2358-1	SS01	103	111
890-2358-2	SS02	96	102
890-2358-3	SS03	101	106
890-2358-4	SS04	91	94
LCS 880-26466/2-A	Lab Control Sample	96	93
LCS 880-26657/2-A	Lab Control Sample	115	112
LCSD 880-26466/3-A	Lab Control Sample Dup	97	97
LCSD 880-26657/3-A	Lab Control Sample Dup	104	99
MB 880-26466/1-A	Method Blank	95	107
MB 880-26657/1-A	Method Blank	106	118

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26723/8
Matrix: Solid
Analysis Batch: 26723

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			06/02/22 19:35	1
Toluene	<0.00200	U	0.00200		mg/Kg			06/02/22 19:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			06/02/22 19:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			06/02/22 19:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			06/02/22 19:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			06/02/22 19:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*06/02/22 19:35*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*		*06/02/22 19:35*	*1*

Lab Sample ID: LCS 880-26723/3
Matrix: Solid
Analysis Batch: 26723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09952		mg/Kg		100	70 - 130		
Toluene			0.100	0.09677		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.1048		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene			0.200	0.2023		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.09314		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-26723/4
Matrix: Solid
Analysis Batch: 26723

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1035		mg/Kg		103	70 - 130	4	35
Toluene			0.100	0.1107		mg/Kg		111	70 - 130	13	35
Ethylbenzene			0.100	0.1275		mg/Kg		127	70 - 130	20	35
m-Xylene & p-Xylene			0.200	0.2600		mg/Kg		130	70 - 130	25	35
o-Xylene			0.100	0.1169		mg/Kg		117	70 - 130	23	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 880-26732/5-A
Matrix: Solid
Analysis Batch: 26723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26732

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:29	06/03/22 06:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:29	06/03/22 06:12	1

QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-26732/5-A
Matrix: Solid
Analysis Batch: 26723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26732

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:29	06/03/22 06:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/02/22 11:29	06/03/22 06:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/22 11:29	06/03/22 06:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/02/22 11:29	06/03/22 06:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/02/22 11:29*	*06/03/22 06:12*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/02/22 11:29*	*06/03/22 06:12*	*1*

Lab Sample ID: LCSD 880-26732/2-A
Matrix: Solid
Analysis Batch: 26723

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26732

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07063	*1	mg/Kg		71	70 - 130	40	35
Toluene			0.100	0.07592		mg/Kg		76	70 - 130	25	35
Ethylbenzene			0.100	0.08356		mg/Kg		84	70 - 130	21	35
m-Xylene & p-Xylene			0.200	0.1654		mg/Kg		83	70 - 130	20	35
o-Xylene			0.100	0.07869		mg/Kg		79	70 - 130	17	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-2358-1 MS
Matrix: Solid
Analysis Batch: 26723

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 26732

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1 *1 F2	0.101	0.02618	F1	mg/Kg		26	70 - 130		
Toluene	<0.00201	U F1 F2	0.101	0.03647	F1	mg/Kg		36	70 - 130		
Ethylbenzene	<0.00201	U F1 F2	0.101	0.04234	F1	mg/Kg		42	70 - 130		
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.202	0.08906	F1	mg/Kg		44	70 - 130		
o-Xylene	<0.00201	U F1 F2	0.101	0.04507	F1	mg/Kg		44	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: 890-2358-1 MSD
Matrix: Solid
Analysis Batch: 26723

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 26732

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1 *1 F2	0.0998	0.05830	F1 F2	mg/Kg		58	70 - 130	76	35
Toluene	<0.00201	U F1 F2	0.0998	0.07534	F2	mg/Kg		75	70 - 130	70	35

QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2358-1 MSD
Matrix: Solid
Analysis Batch: 26723

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 26732

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	<0.00201	U F1 F2	0.0998	0.09191	F2	mg/Kg		92	70 - 130	74	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.1906	F2	mg/Kg		95	70 - 130	73	35
o-Xylene	<0.00201	U F1 F2	0.0998	0.08909	F2	mg/Kg		88	70 - 130	66	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-26466/1-A
Matrix: Solid
Analysis Batch: 26613

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26466

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/27/22 15:22	06/01/22 10:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/27/22 15:22	06/01/22 10:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/27/22 15:22	06/01/22 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*05/27/22 15:22*	*06/01/22 10:43*	*1*
o-Terphenyl	*107*		*70 - 130*	*05/27/22 15:22*	*06/01/22 10:43*	*1*

Lab Sample ID: LCS 880-26466/2-A
Matrix: Solid
Analysis Batch: 26613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26466

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	750.0		mg/Kg		75	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	929.0		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: LCSD 880-26466/3-A
Matrix: Solid
Analysis Batch: 26613

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26466

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	751.0		mg/Kg		75	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	963.7		mg/Kg		96	70 - 130	4	20

QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-26466/3-A
Matrix: Solid
Analysis Batch: 26613

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26466

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: 880-15264-A-21-E MS
Matrix: Solid
Analysis Batch: 26613

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 26466

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	1000	710.4		mg/Kg		71	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	858.5		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

Lab Sample ID: 880-15264-A-21-F MSD
Matrix: Solid
Analysis Batch: 26613

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 26466

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	999	873.3	F2	mg/Kg		87	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	958.0		mg/Kg		96	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: MB 880-26657/1-A
Matrix: Solid
Analysis Batch: 26613

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26657

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/01/22 14:08	06/01/22 20:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/01/22 14:08	06/01/22 20:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/01/22 14:08	06/01/22 20:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*06/01/22 14:08*	*06/01/22 20:42*	*1*
o-Terphenyl	*118*		*70 - 130*	*06/01/22 14:08*	*06/01/22 20:42*	*1*

QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-26657/2-A
Matrix: Solid
Analysis Batch: 26613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26657

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	971.4		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1184		mg/Kg		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: LCSD 880-26657/3-A
Matrix: Solid
Analysis Batch: 26613

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26657

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	820.8		mg/Kg		82	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			1000	1055		mg/Kg		105	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: 890-2357-A-1-C MS
Matrix: Solid
Analysis Batch: 26613

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 26657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	777.3		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	913.5		mg/Kg		89	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: 890-2357-A-1-D MSD
Matrix: Solid
Analysis Batch: 26613

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 26657

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	783.4		mg/Kg		78	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	919.9		mg/Kg		90	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2357-A-1-D MSD
Matrix: Solid
Analysis Batch: 26613

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 26657

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	*86*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26572/1-A
Matrix: Solid
Analysis Batch: 26687

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/02/22 08:55	1

Lab Sample ID: LCS 880-26572/2-A
Matrix: Solid
Analysis Batch: 26687

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	231.9		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-26572/3-A
Matrix: Solid
Analysis Batch: 26687

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	232.7		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 890-2357-A-2-B MS
Matrix: Solid
Analysis Batch: 26687

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2300		1250	3534		mg/Kg		99	90 - 110		

Lab Sample ID: 890-2357-A-2-C MSD
Matrix: Solid
Analysis Batch: 26687

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2300		1250	3554		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

GC VOA

Analysis Batch: 26723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2358-1	SS01	Total/NA	Solid	8021B	26732
890-2358-2	SS02	Total/NA	Solid	8021B	26732
890-2358-3	SS03	Total/NA	Solid	8021B	26732
890-2358-4	SS04	Total/NA	Solid	8021B	26732
MB 880-26723/8	Method Blank	Total/NA	Solid	8021B	
MB 880-26732/5-A	Method Blank	Total/NA	Solid	8021B	26732
LCS 880-26723/3	Lab Control Sample	Total/NA	Solid	8021B	
LCSD 880-26723/4	Lab Control Sample Dup	Total/NA	Solid	8021B	
LCSD 880-26732/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26732
890-2358-1 MS	SS01	Total/NA	Solid	8021B	26732
890-2358-1 MSD	SS01	Total/NA	Solid	8021B	26732

Prep Batch: 26732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2358-1	SS01	Total/NA	Solid	5035	
890-2358-2	SS02	Total/NA	Solid	5035	
890-2358-3	SS03	Total/NA	Solid	5035	
890-2358-4	SS04	Total/NA	Solid	5035	
MB 880-26732/5-A	Method Blank	Total/NA	Solid	5035	
LCSD 880-26732/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2358-1 MS	SS01	Total/NA	Solid	5035	
890-2358-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 26831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2358-1	SS01	Total/NA	Solid	Total BTEX	
890-2358-2	SS02	Total/NA	Solid	Total BTEX	
890-2358-3	SS03	Total/NA	Solid	Total BTEX	
890-2358-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 26466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2358-1	SS01	Total/NA	Solid	8015NM Prep	
890-2358-2	SS02	Total/NA	Solid	8015NM Prep	
890-2358-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-26466/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26466/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26466/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15264-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-15264-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2358-1	SS01	Total/NA	Solid	8015B NM	26466
890-2358-2	SS02	Total/NA	Solid	8015B NM	26466
890-2358-3	SS03	Total/NA	Solid	8015B NM	26466
890-2358-4	SS04	Total/NA	Solid	8015B NM	26657
MB 880-26466/1-A	Method Blank	Total/NA	Solid	8015B NM	26466
MB 880-26657/1-A	Method Blank	Total/NA	Solid	8015B NM	26657

QC Association Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

GC Semi VOA (Continued)

Analysis Batch: 26613 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-26466/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26466
LCS 880-26657/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26657
LCSD 880-26466/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26466
LCSD 880-26657/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26657
880-15264-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	26466
880-15264-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26466
890-2357-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	26657
890-2357-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26657

Prep Batch: 26657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2358-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-26657/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26657/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26657/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2357-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2357-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2358-1	SS01	Total/NA	Solid	8015 NM	
890-2358-2	SS02	Total/NA	Solid	8015 NM	
890-2358-3	SS03	Total/NA	Solid	8015 NM	
890-2358-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 26572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2358-1	SS01	Soluble	Solid	DI Leach	
890-2358-2	SS02	Soluble	Solid	DI Leach	
890-2358-3	SS03	Soluble	Solid	DI Leach	
890-2358-4	SS04	Soluble	Solid	DI Leach	
MB 880-26572/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26572/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26572/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2357-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2357-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 26687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2358-1	SS01	Soluble	Solid	300.0	26572
890-2358-2	SS02	Soluble	Solid	300.0	26572
890-2358-3	SS03	Soluble	Solid	300.0	26572
890-2358-4	SS04	Soluble	Solid	300.0	26572
MB 880-26572/1-A	Method Blank	Soluble	Solid	300.0	26572
LCS 880-26572/2-A	Lab Control Sample	Soluble	Solid	300.0	26572
LCSD 880-26572/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26572
890-2357-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	26572
890-2357-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	26572

Lab Chronicle

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Client Sample ID: SS01
Date Collected: 05/26/22 12:15
Date Received: 05/27/22 16:40

Lab Sample ID: 890-2358-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	26732	06/02/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26723	06/03/22 06:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26831	06/03/22 14:08	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26708	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	26466	06/01/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26613	06/01/22 19:16	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26572	05/31/22 10:56	SC	XEN MID
Soluble	Analysis	300.0		5			26687	06/02/22 10:54	CH	XEN MID

Client Sample ID: SS02
Date Collected: 05/26/22 12:20
Date Received: 05/27/22 16:40

Lab Sample ID: 890-2358-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26732	06/02/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26723	06/03/22 06:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26831	06/03/22 14:08	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26708	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26466	06/01/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26613	06/01/22 19:38	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26572	05/31/22 10:56	SC	XEN MID
Soluble	Analysis	300.0		10			26687	06/02/22 11:04	CH	XEN MID

Client Sample ID: SS03
Date Collected: 05/26/22 12:25
Date Received: 05/27/22 16:40

Lab Sample ID: 890-2358-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	26732	06/02/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26723	06/03/22 07:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26831	06/03/22 14:08	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26708	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26466	06/01/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26613	06/01/22 19:59	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26572	05/31/22 10:56	SC	XEN MID
Soluble	Analysis	300.0		10			26687	06/02/22 11:13	CH	XEN MID

Client Sample ID: SS04
Date Collected: 05/26/22 14:20
Date Received: 05/27/22 16:40

Lab Sample ID: 890-2358-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26732	06/02/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26723	06/03/22 07:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26831	06/03/22 14:08	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Client Sample ID: SS04
Date Collected: 05/26/22 14:20
Date Received: 05/27/22 16:40

Lab Sample ID: 890-2358-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			26708	06/02/22 09:37	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26657	06/01/22 14:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26613	06/02/22 00:57	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	26572	05/31/22 10:56	SC	XEN MID
Soluble	Analysis	300.0		1			26687	06/02/22 11:22	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT C1 FRAC POND

Job ID: 890-2358-1
SDG: 03E1558018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2358-1	SS01	Solid	05/26/22 12:15	05/27/22 16:40	0.5'
890-2358-2	SS02	Solid	05/26/22 12:20	05/27/22 16:40	0.5'
890-2358-3	SS03	Solid	05/26/22 12:25	05/27/22 16:40	0.5'
890-2358-4	SS04	Solid	05/26/22 14:20	05/27/22 16:40	0.5'

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Adrian Baker
Company Name:	Ensolum LLC	Company Name:	XTO Energy, Inc.
Address:		Address:	3104 E. Green Street
City, State ZIP:		City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307	Email:	tmorrissey@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit C1 Frac Pond	Turn Around	
Project Number:	03E1558018	☑ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	Conner Shore	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	T-NM-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.4	
Total Containers:		Corrected Temperature:	3.2	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
SS01	S	05.26.22	1215	0.5'	G	1		x	x	x
SS02	S	05.26.22	1220	0.5'	G	1		x	x	x
SS03	S	05.26.22	1225	0.5'	G	1		x	x	x
SS04	S	05.26.22	1420	0.5'	G	1		x	x	x

ANALYSIS REQUEST

890-2358 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident ID:nAPP2207743395

Cost Center:2094021001

AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5/27/22 16:40	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2358-1
SDG Number: 03E1558018

Login Number: 2358
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2358-1
SDG Number: 03E1558018

Login Number: 2358
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 06/01/22 11:10 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2698-1
Laboratory Sample Delivery Group: 03E1558018
Client Project/Site: PLU C1 Frac Pond

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
8/10/2022 7:58:36 AM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Laboratory Job ID: 890-2698-1
SDG: 03E1558018

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-2698-1
Project/Site: PLU C1 Frac Pond SDG: 03E1558018

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

Job ID: 890-2698-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2698-1

Receipt
The sample was received on 8/1/2022 2:35 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31571 and 880-31607 and analytical batch 880-31541 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (890-2682-A-1-D MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31438 and analytical batch 880-31455 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31438 and analytical batch 880-31455 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-31438/2-A) and (890-2702-A-1-B MS). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

Client Sample ID: FS01

Date Collected: 08/01/22 12:46
Date Received: 08/01/22 14:35
Sample Depth: 1

Lab Sample ID: 890-2698-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/05/22 10:52	08/06/22 09:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/22 10:52	08/06/22 09:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/22 10:52	08/06/22 09:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/22 10:52	08/06/22 09:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/05/22 10:52	08/06/22 09:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/22 10:52	08/06/22 09:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*08/05/22 10:52*	*08/06/22 09:12*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/05/22 10:52*	*08/06/22 09:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/08/22 14:53	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 15:09	08/05/22 03:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 15:09	08/05/22 03:30	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 15:09	08/05/22 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*08/03/22 15:09*	*08/05/22 03:30*	*1*
o-Terphenyl	*89*		*70 - 130*	*08/03/22 15:09*	*08/05/22 03:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**799**		4.97		mg/Kg			08/09/22 19:11	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-17546-A-41-E MS	Matrix Spike	101	101										
880-17546-A-41-F MSD	Matrix Spike Duplicate	102	98										
890-2682-A-1-D MS	Matrix Spike	158 S1+	92										
890-2682-A-1-E MSD	Matrix Spike Duplicate	120	81										
890-2698-1	FS01	100	102										
LCS 880-31571/1-A	Lab Control Sample	106	102										
LCS 880-31607/1-A	Lab Control Sample	103	98										
LCSD 880-31571/2-A	Lab Control Sample Dup	111	102										
LCSD 880-31607/2-A	Lab Control Sample Dup	100	99										
MB 880-31326/5-A	Method Blank	92	104										
MB 880-31571/5-A	Method Blank	91	103										
MB 880-31607/5-A	Method Blank	92	102										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-2698-1	FS01	77	89										
890-2702-A-1-B MS	Matrix Spike	67 S1-	76										
890-2702-A-1-C MSD	Matrix Spike Duplicate	79	88										
LCS 880-31438/2-A	Lab Control Sample	124	131 S1+										
LCSD 880-31438/3-A	Lab Control Sample Dup	121	129										
MB 880-31438/1-A	Method Blank	88	104										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31326/5-A
Matrix: Solid
Analysis Batch: 31541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31326

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:01	08/05/22 12:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:01	08/05/22 12:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:01	08/05/22 12:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/02/22 14:01	08/05/22 12:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:01	08/05/22 12:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/02/22 14:01	08/05/22 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/02/22 14:01*	*08/05/22 12:07*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/02/22 14:01*	*08/05/22 12:07*	*1*

Lab Sample ID: MB 880-31571/5-A
Matrix: Solid
Analysis Batch: 31541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31571

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 10:52	08/06/22 00:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 10:52	08/06/22 00:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 10:52	08/06/22 00:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/22 10:52	08/06/22 00:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 10:52	08/06/22 00:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/22 10:52	08/06/22 00:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*08/05/22 10:52*	*08/06/22 00:45*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/05/22 10:52*	*08/06/22 00:45*	*1*

Lab Sample ID: LCS 880-31571/1-A
Matrix: Solid
Analysis Batch: 31541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31571

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1096		mg/Kg		110	70 - 130		
Toluene			0.100	0.1067		mg/Kg		107	70 - 130		
Ethylbenzene			0.100	0.1107		mg/Kg		111	70 - 130		
m-Xylene & p-Xylene			0.200	0.2247		mg/Kg		112	70 - 130		
o-Xylene			0.100	0.1114		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-31571/2-A
Matrix: Solid
Analysis Batch: 31541

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31571

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1076		mg/Kg		108	70 - 130	2	35

QC Sample Results

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-31571/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31541 — **Prep Batch: 31571**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1077		mg/Kg		108	70 - 130	1	35
Ethylbenzene			0.100	0.1093		mg/Kg		109	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2226		mg/Kg		111	70 - 130	1	35
o-Xylene			0.100	0.1110		mg/Kg		111	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-2682-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31541 — **Prep Batch: 31571**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1 F2	0.101	0.04519	F1	mg/Kg		45	70 - 130
Toluene	0.00706	F1	0.101	0.03864	F1	mg/Kg		31	70 - 130
Ethylbenzene	0.0326	F1 F2	0.101	0.08902	F1	mg/Kg		56	70 - 130
m-Xylene & p-Xylene	0.189	F1 F2	0.201	0.4471		mg/Kg		129	70 - 130
o-Xylene	0.0715	F1 F2	0.101	0.1718		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*158*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 890-2682-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31541 — **Prep Batch: 31571**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1 F2	0.0990	0.03044	F1 F2	mg/Kg		31	70 - 130	39	35
Toluene	0.00706	F1	0.0990	0.03443	F1	mg/Kg		28	70 - 130	12	35
Ethylbenzene	0.0326	F1 F2	0.0990	0.05788	F1 F2	mg/Kg		26	70 - 130	42	35
m-Xylene & p-Xylene	0.189	F1 F2	0.198	0.2595	F1 F2	mg/Kg		36	70 - 130	53	35
o-Xylene	0.0715	F1 F2	0.0990	0.09382	F1 F2	mg/Kg		23	70 - 130	59	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*

Lab Sample ID: MB 880-31607/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31541 — **Prep Batch: 31607**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 14:38	08/06/22 12:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 14:38	08/06/22 12:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 14:38	08/06/22 12:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/22 14:38	08/06/22 12:22	1

QC Sample Results

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-31607/5-A
Matrix: Solid
Analysis Batch: 31541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31607

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 14:38	08/06/22 12:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/22 14:38	08/06/22 12:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/05/22 14:38*	*08/06/22 12:22*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/05/22 14:38*	*08/06/22 12:22*	*1*

Lab Sample ID: LCS 880-31607/1-A
Matrix: Solid
Analysis Batch: 31541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31607

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08131		mg/Kg		81	70 - 130		
Toluene			0.100	0.08946		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.09220		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene			0.200	0.1908		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09654		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-31607/2-A
Matrix: Solid
Analysis Batch: 31541

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31607

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09300		mg/Kg		93	70 - 130	13	35
Toluene			0.100	0.09344		mg/Kg		93	70 - 130	4	35
Ethylbenzene			0.100	0.09529		mg/Kg		95	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1949		mg/Kg		97	70 - 130	2	35
o-Xylene			0.100	0.09773		mg/Kg		98	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-17546-A-41-E MS
Matrix: Solid
Analysis Batch: 31541

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31607

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1	0.100	0.06794	F1	mg/Kg		68	70 - 130		
Toluene	<0.00200	U F1	0.100	0.06490	F1	mg/Kg		65	70 - 130		
Ethylbenzene	<0.00200	U F1	0.100	0.05305	F1	mg/Kg		53	70 - 130		
m-Xylene & p-Xylene	<0.00401	U F1	0.201	0.1061	F1	mg/Kg		53	70 - 130		
o-Xylene	<0.00200	U F1	0.100	0.05279	F1	mg/Kg		53	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-17546-A-41-E MS
Matrix: Solid
Analysis Batch: 31541

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31607

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-17546-A-41-F MSD
Matrix: Solid
Analysis Batch: 31541

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31607

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0998	0.07652		mg/Kg		77	70 - 130	12	35
Toluene	<0.00200	U F1	0.0998	0.07249		mg/Kg		73	70 - 130	11	35
Ethylbenzene	<0.00200	U F1	0.0998	0.06134	F1	mg/Kg		61	70 - 130	15	35
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.1239	F1	mg/Kg		62	70 - 130	15	35
o-Xylene	<0.00200	U F1	0.0998	0.06039	F1	mg/Kg		61	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-31438/1-A
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31438

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 15:09	08/04/22 19:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 15:09	08/04/22 19:53	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 15:09	08/04/22 19:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*88*		*70 - 130*	*08/03/22 15:09*	*08/04/22 19:53*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/03/22 15:09*	*08/04/22 19:53*	*1*

Lab Sample ID: LCS 880-31438/2-A
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31438

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	905.8		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	923.2		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	*124*		*70 - 130*
o-Terphenyl	*131*	*S1+*	*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-31438/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31455 — **Prep Batch: 31438**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1071		mg/Kg		107	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			1000	915.2		mg/Kg		92	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*121*		*70 - 130*
o-Terphenyl	*129*		*70 - 130*

Lab Sample ID: 890-2702-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31455 — **Prep Batch: 31438**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	757.0		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	642.2	F1	mg/Kg		60	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*67*	*S1-*	*70 - 130*
o-Terphenyl	*76*		*70 - 130*

Lab Sample ID: 890-2702-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31455 — **Prep Batch: 31438**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	1090	F2	mg/Kg		109	70 - 130	36	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	755.7		mg/Kg		71	70 - 130	16	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*79*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31444/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 31665

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/09/22 14:15	1

QC Sample Results

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-31444/2-A
Matrix: Solid
Analysis Batch: 31665

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	233.6		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-31444/3-A
Matrix: Solid
Analysis Batch: 31665

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	234.4		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-2695-A-4-C MS
Matrix: Solid
Analysis Batch: 31665

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	81.0		251	328.8		mg/Kg		99	90 - 110		

Lab Sample ID: 890-2695-A-4-D MSD
Matrix: Solid
Analysis Batch: 31665

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	81.0		251	327.2		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

GC VOA

Prep Batch: 31326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31326/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 31541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2698-1	FS01	Total/NA	Solid	8021B	31571
MB 880-31326/5-A	Method Blank	Total/NA	Solid	8021B	31326
MB 880-31571/5-A	Method Blank	Total/NA	Solid	8021B	31571
MB 880-31607/5-A	Method Blank	Total/NA	Solid	8021B	31607
LCS 880-31571/1-A	Lab Control Sample	Total/NA	Solid	8021B	31571
LCS 880-31607/1-A	Lab Control Sample	Total/NA	Solid	8021B	31607
LCSD 880-31571/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31571
LCSD 880-31607/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31607
880-17546-A-41-E MS	Matrix Spike	Total/NA	Solid	8021B	31607
880-17546-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31607
890-2682-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	31571
890-2682-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31571

Prep Batch: 31571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2698-1	FS01	Total/NA	Solid	5035	
MB 880-31571/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31571/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31571/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2682-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2682-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 31607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31607/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31607/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31607/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17546-A-41-E MS	Matrix Spike	Total/NA	Solid	5035	
880-17546-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2698-1	FS01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 31438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2698-1	FS01	Total/NA	Solid	8015NM Prep	
MB 880-31438/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31438/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31438/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2702-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2702-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

GC Semi VOA

Analysis Batch: 31455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2698-1	FS01	Total/NA	Solid	8015B NM	31438
MB 880-31438/1-A	Method Blank	Total/NA	Solid	8015B NM	31438
LCS 880-31438/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31438
LCSD 880-31438/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31438
890-2702-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	31438
890-2702-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31438

Analysis Batch: 31552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2698-1	FS01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2698-1	FS01	Soluble	Solid	DI Leach	
MB 880-31444/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31444/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31444/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2695-A-4-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2695-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 31665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2698-1	FS01	Soluble	Solid	300.0	31444
MB 880-31444/1-A	Method Blank	Soluble	Solid	300.0	31444
LCS 880-31444/2-A	Lab Control Sample	Soluble	Solid	300.0	31444
LCSD 880-31444/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31444
890-2695-A-4-C MS	Matrix Spike	Soluble	Solid	300.0	31444
890-2695-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31444

Lab Chronicle

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

Client Sample ID: FS01

Date Collected: 08/01/22 12:46
Date Received: 08/01/22 14:35

Lab Sample ID: 890-2698-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	31571	08/05/22 10:52	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31541	08/06/22 09:12	MR	EETSC MID
Total/NA	Analysis	Total BTEX		1			31790	08/08/22 14:53	SM	EETSC MID
Total/NA	Analysis	8015 NM		1			31552	08/05/22 08:59	AJ	EETSC MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31438	08/03/22 15:09	DM	EETSC MID
Total/NA	Analysis	8015B NM		1			31455	08/05/22 03:30	AJ	EETSC MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31444	08/03/22 17:00	SMC	EETSC MID
Soluble	Analysis	300.0		1			31665	08/09/22 19:11	CH	EETSC MID

Laboratory References:

EETSC MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EETSC MID
Total BTEX	Total BTEX Calculation	TAL SOP	EETSC MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EETSC MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EETSC MID
300.0	Anions, Ion Chromatography	MCAWW	EETSC MID
5035	Closed System Purge and Trap	SW846	EETSC MID
8015NM Prep	Microextraction	SW846	EETSC MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EETSC MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EETSC MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: PLU C1 Frac Pond

Job ID: 890-2698-1
SDG: 03E1558018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2698-1	FS01	Solid	08/01/22 12:46	08/01/22 14:35	1

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Takoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum LLC	Company Name:	XTO Energy, Inc
Address:	3122 National Parks Highway	Address:	3104 E. Green Street
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8307	Email:	garrettgreen@exxonmobile.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU C1 Frac Pond	Turn Around	☑ Routine ☐ Rush
Project Number:	D3E1558018	Due Date:	
Project Location:	32.202, -103.832	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Josh Adams		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR-007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	6.0
Total Containers:		Corrected Temperature:	5.8

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	TPH	BTEX
FS01	S	8/1/22	1246	1'				X	X	X

890-2698 Chain of Custody

MR

Sample Comments

Incident ID:
nAPP2207743395
Cost Center:
2094021001
PM email:
tmorrissey@ensolum.com

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.1.22 1435	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2698-1
SDG Number: 03E1558018

Login Number: 2698
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2698-1
SDG Number: 03E1558018

Login Number: 2698
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/03/22 10:15 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

ENSOLUM

APPENDIX D

NMOCD Notifications

From: Hamlet, Robert, EMNRD
To: Collins, Melanie
Cc: DelawareSpills /SM; Aimee Cole; Tacoma Morrissey; Ben Belill; Kalei Jennings; Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] XTO Extension Request - Poker Lake Unit C1 Frac Pond (Incident Number NAPP2207743395)
Date: Wednesday, June 1, 2022 9:11:59 AM
Attachments: image003.png

[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2207743395**

Melanie,

Your request for an extension to **September 1st, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Tuesday, May 31, 2022 9:33 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; acole@ensolum.com; Tacoma Morrissey <tmorrissey@ensolum.com>; bbelill@ensolum.com; Kalei Jennings <kjennings@ensolum.com>
Subject: [EXTERNAL] XTO Extension Request - Poker Lake Unit C1 Frac Pond (Incident Number NAPP2207743395)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Poker Lake Unit C1 Frac Pond (Incident Number NAPP2207743395)

All,

XTO is requesting an extension for the current deadline of June 3, 2022 for submitting a remediation work plan or closure request required in 19.15.29.12.B.(1) NMAC at the Poker Lake Unit C1 Frac

Pond (Incident Number NAPP2207743395). The release occurred on March 5, 2022. Initial assessment of the release has been completed and remediation is ongoing. In order to complete the remediation activities and submit a remediation work plan or closure request, XTO is requesting a 90-day extension until September 1, 2022.

Thank you,

Melanie Collins
SSHE Technician
XTO ENERGY
An **ExxonMobil** Subsidiary
6401 Holiday Hill Rd, Bldg 5
Midland, TX 79707
432-218-3709

From: Green, Garrett J
To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD
Cc: Tacoma Morrissey; Kalei Jennings; DelawareSpills /SM
Subject: XTO - Sampling Notification (Week of 8/1/22 - 8/5/22)
Date: Friday, July 29, 2022 4:11:00 PM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of August 1, 2022.

Monday
- PLU C1 Frac Pond / NAPP2207743395
- BEU Connector PW Booster / nAPP2213151424

Tuesday
- BEU Connector PW Booster / nAPP2213151424
- Goldenchild CTB / nAPP2035256230, nAPP2102237559, nAPP2101335437, & nAPP2101331137

Wednesday
- BEU Connector PW Booster / nAPP2213151424
- Ross Draw 25 NW Battery / NAPP2201444794

Thursday
- PLU 89 / NRM1932350962

Thank you,

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 140085

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 140085
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	11/30/2022